
Asthma

Definition: Respondents who have been told by a doctor, nurse, or health professional that they had asthma and that they still have asthma.

Prevalence of Asthma

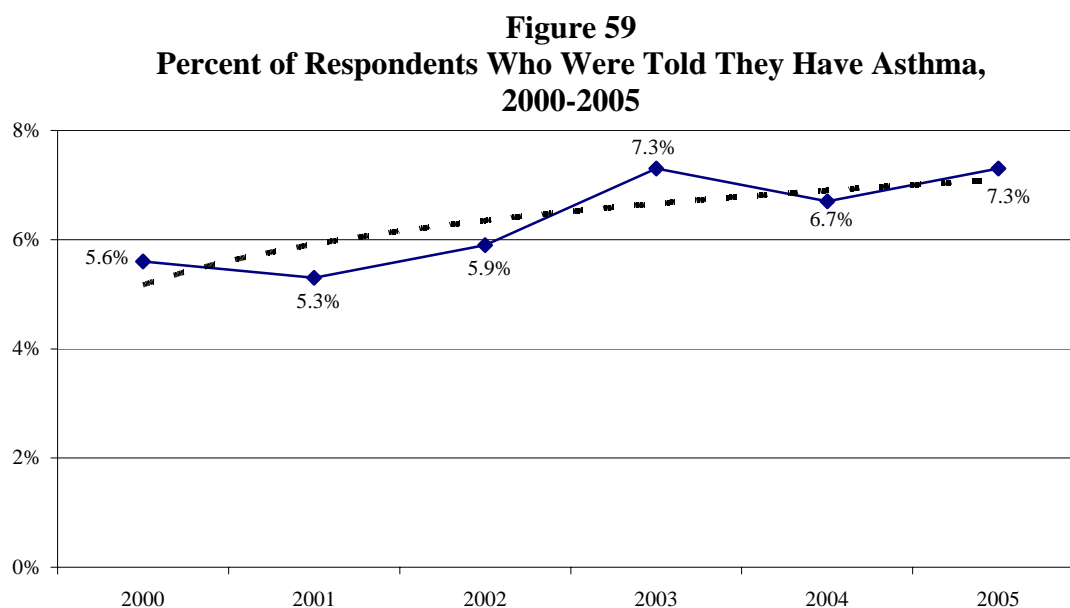
- South Dakota 7.3%
- Nationwide median 8.0%

Healthy People 2010 Objective

There was no stated Healthy People 2010 Objective for having asthma.

Trend Analysis

Since this question was first asked in 2000, the percent of respondents who stated they were told they have asthma has increased from 5.6 percent in 2000 to a high of 7.3 percent in 2003 and 2005.



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2000-2005

Demographics

Gender	Females exhibit a significantly higher prevalence of asthma than males. This gender difference is evident in specific demographic categories including whites.
Age	There appears to be no strong association with the prevalence of asthma and age.
Race	There are no racial differences demonstrated by the available data.
Region	The west region exhibits a very high prevalence of asthma, while the central region shows a very low prevalence. These extremes are more evident in females and females in the southeast demonstrate a very high prevalence of asthma as well.

Household Income	The prevalence of asthma does not seem to follow a pattern as household income increases.
Education	The prevalence of asthma generally decreases as education levels increase.
Employment Status	Those who are unable to work demonstrate a very high prevalence of asthma, while those who are employed for wages, self-employed, unemployed, a homemaker, or retired show a very low prevalence.
Marital Status	Those who are divorced, separated, or widowed exhibit a very high prevalence of asthma, while those who are married show a very low prevalence. These extremes are much more evident in females.

Table 75
Respondents Who Were Told They Have Asthma, 2005

	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
Total	6,884	7.3	(6.5-8.2)	2,831	5.7	(4.6-7.0)	4,053	9.0	(7.8-10.2)
Age									
18-24	319	6.8	(3.9-11.5)	125	4.3	(1.3-13.3)	194	9.5	(5.3-16.3)
25-34	868	6.6	(4.9-8.8)	366	4.5	(2.7-7.5)	502	8.8	(6.3-12.3)
35-44	1,135	6.5	(4.8-8.6)	498	6.0	(3.5-9.8)	637	7.0	(5.1-9.5)
45-54	1,350	7.8	(6.3-9.6)	616	5.8	(4.0-8.5)	734	9.7	(7.6-12.4)
55-64	1,161	9.0	(7.3-11.1)	512	7.5	(5.3-10.4)	649	10.6	(8.1-13.8)
65-74	995	7.9	(6.2-10.1)	403	5.3	(3.3-8.3)	592	10.2	(7.7-13.5)
75+	1,016	7.9	(6.2-10.0)	301	7.8	(5.1-11.8)	715	7.9	(5.9-10.5)
Race									
White	6,170	7.4	(6.5-8.3)	2,540	5.7	(4.6-7.2)	3,630	8.9	(7.8-10.3)
American Indian	491	7.0	(4.8-10.1)	197	5.6	(2.9-10.6)	294	8.4	(5.4-12.9)
Region									
Southeast	1,579	7.9	(6.3-9.8)	657	6.3	(4.2-9.5)	922	9.5	(7.5-12.1)
Northeast	1,529	7.3	(6.0-8.9)	594	5.2	(3.6-7.4)	935	9.0	(7.1-11.4)
Central	1,413	5.0	(4.0-6.3)	616	4.6	(3.2-6.6)	797	5.5	(4.0-7.4)
West	1,659	7.8	(6.4-9.5)	665	5.6	(4.0-7.7)	994	9.8	(7.7-12.5)
American Indian Counties	704	6.3	(4.6-8.6)	299	5.2	(3.2-8.3)	405	7.5	(4.9-11.2)
Household Income									
Less than \$10,000	359	10.0	(7.1-14.0)	100	5.9	(2.5-13.3)	259	11.9	(8.1-17.1)
\$10,000-\$14,999	466	17.5	(11.1-26.6)	133	22.8	(10.3-43.4)	333	13.8	(10.1-18.6)
\$15,000-\$19,999	475	9.9	(7.1-13.5)	177	8.3	(4.7-14.2)	298	11.0	(7.4-16.1)
\$20,000-\$24,999	638	6.6	(4.7-9.2)	248	7.6	(4.6-12.2)	390	5.8	(3.6-9.3)
\$25,000-\$34,999	950	5.7	(4.3-7.6)	414	4.6	(2.7-7.6)	536	6.8	(4.9-9.5)
\$35,000-\$49,999	1,226	5.6	(4.3-7.1)	560	3.5	(2.2-5.5)	666	7.7	(5.7-10.4)
\$50,000-\$74,999	1,028	7.6	(5.7-10.1)	494	5.0	(2.9-8.4)	534	10.6	(7.5-14.8)
\$75,000+	873	6.5	(4.8-8.7)	468	5.8	(3.8-8.8)	405	7.6	(5.0-11.3)
Education									
8th Grade or Less	322	11.0	(6.8-17.3)	152	14.8	(8.1-25.5)	170	6.3	(3.3-11.8)
Some High School	402	9.5	(5.8-15.4)	175	6.6	(2.4-17.0)	227	13.3	(8.0-21.3)
High School or G.E.D.	2,193	7.0	(5.8-8.5)	960	5.0	(3.5-7.0)	1,233	9.3	(7.4-11.5)
Some Post-High School	1,976	7.2	(5.7-9.1)	715	5.4	(3.3-8.9)	1,261	8.7	(6.8-11.1)
College Graduate	1,982	6.9	(5.6-8.5)	825	5.4	(3.8-7.5)	1,157	8.4	(6.5-10.8)
Employment Status									
Employed for Wages	3,349	6.5	(5.5-7.7)	1,380	5.0	(3.6-6.8)	1,969	8.0	(6.7-9.7)
Self-employed	902	5.1	(3.8-7.0)	600	4.3	(2.8-6.5)	302	7.1	(4.4-11.2)
Unemployed	170	4.7	(2.4-8.8)	*	*	*	*	*	*
Homemaker	410	8.6	(5.8-12.5)	*	*	*	*	*	*
Student	125	13.3	(6.2-26.1)	*	*	*	*	*	*
Retired	1,642	8.1	(6.7-9.7)	603	7.1	(5.2-9.8)	1,039	8.8	(7.0-11.0)
Unable to Work	282	19.0	(14.0-25.1)	120	18.0	(10.5-29.1)	162	19.8	(14.0-27.3)

Table 75 (continued) Respondents Who Were Told They Have Asthma, 2005									
	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
Marital Status									
Married/Unmarried Couple	4,133	6.7	(5.8-7.6)	1,849	5.5	(4.4-6.9)	2,284	7.8	(6.6-9.2)
Divorced/Separated	956	10.0	(8.0-12.5)	397	7.1	(4.6-10.9)	559	12.4	(9.5-16.0)
Widowed	964	10.2	(8.2-12.5)	159	8.2	(4.7-13.9)	805	10.6	(8.4-13.3)
Never Married	820	7.6	(5.0-11.6)	422	5.5	(2.6-11.1)	398	10.9	(6.6-17.4)

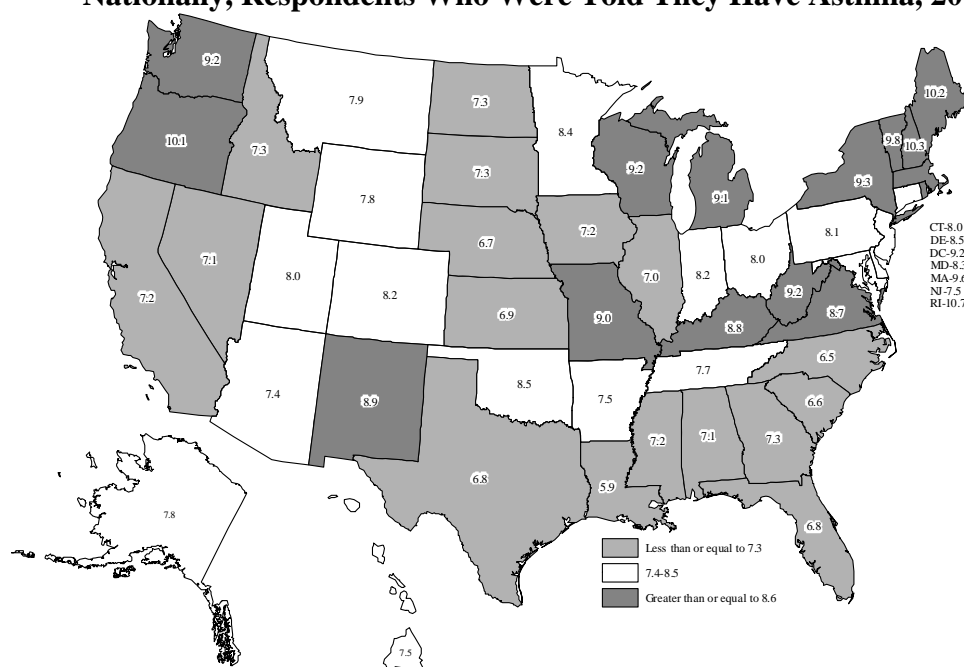
Note: *Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2005

National Statistics

The national median for respondents who have asthma was 8.0 percent. South Dakota had 7.3 percent of respondents who have asthma. Louisiana had the lowest percent of respondents who have asthma with 5.9 percent, while Rhode Island had the highest percent of respondents who have asthma with 10.7 percent.

Figure 60
Nationally, Respondents Who Were Told They Have Asthma, 2005



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2005

Further Analysis

Following are data illustrating the percent of those who have asthma for various health behaviors and conditions. For example, 14.7 percent of respondents who stated they have fair or poor health have asthma, while 6.3 percent of respondents who stated they have excellent, very good, or good health status have asthma.

Table 76
Have Asthma for Selected Health Behaviors and Conditions, 2005

Health Behavior or Condition	# Respondents	% Asthma	95% CI
Fair or Poor Health Status	1,117	14.7	12.3-17.5
Excellent, Very Good, or Good Health Status	5,760	6.3	5.4-7.2
Physical Health Not Good for 30 days of the past 30	511	20.7	16.2-26.0
Physical Health Not Good for 0-29 days of the past 30	6,305	6.5	5.7-7.4
Mental Health Not Good for 20-30 days of the past 30	357	11.4	8.1-15.9
Mental Health Not Good for 0-19 days of the past 30	6,482	7.0	6.2-7.9
Usual Activities Unattainable for 10-30 Days of the Past 30	461	17.9	13.9-22.7
Usual Activities Unattainable for 0-9 Days of the Past 30	6,385	6.7	5.9-7.7
Dissatisfied / Very Dissatisfied with Life	267	17.0	11.0-25.4
Satisfied / Very Satisfied with Life	6,414	7.0	6.2-7.9
Obese (BMI = 30.0+)	1,768	8.9	7.2-11.0
Overweight (BMI = 25.0-29.9)	2,539	6.3	5.3-7.6
Recommended Weight (BMI = 18.5-24.9)	2,205	7.1	5.6-8.9
Underweight (BMI < 18.5)	102	10.8	5.0-21.9
No Leisure Time Physical Activity	1,762	9.7	8.1-11.5
Leisure Time Physical Activity	5,121	6.7	5.8-7.7
No Moderate Physical Activity	3,589	8.1	7.0-9.3
Moderate Physical Activity	2,942	6.8	5.6-8.3
No Vigorous Physical Activity	5,383	7.7	6.8-8.7
Vigorous Physical Activity	1,278	6.5	4.7-8.9
Less Than Five Servings of Fruits and Vegetables	5,209	7.2	6.3-8.2
At Least Five Servings of Fruits and Vegetables	1,590	8.0	6.1-10.4
Not Heard of "Healthy South Dakota" Program	4,460	7.4	6.4-8.4
Heard of "Healthy South Dakota" Program	2,127	7.6	6.0-9.6
Current Smoker	1,308	7.6	6.1-9.6
Former Smoker	1,922	7.7	6.5-9.1
Never Smoked	3,635	7.1	5.9-8.5
Smokeless Tobacco Use	362	3.6	2.1-6.0
No Smokeless Tobacco Use	6,312	7.7	6.9-8.7
Drank Alcohol in Past 30 Days	3,661	6.3	5.3-7.5
No Alcohol in Past 30 Days	3,211	8.8	7.6-10.3
Binge Drinker	911	5.2	3.4-7.9
Not a Binge Drinker	5,903	7.8	6.9-8.8
Heavy Drinker	236	4.8	2.2-10.0
Not a Heavy Drinker	6,542	7.5	6.7-8.5
Hypertension	2,210	9.4	7.9-11.2
No Hypertension	4,666	6.7	5.7-7.7
High Blood Cholesterol	2,085	8.2	6.7-9.9
No High Blood Cholesterol	3,418	7.6	6.4-8.9
Not Taking any Precautions Against West Nile Virus	2,103	6.7	5.4-8.2
Taking Precautions Against West Nile Virus	4,542	7.7	6.7-8.9
No Health Insurance (18-64)	414	6.9	4.7-10.0
Health Insurance (18-64)	4,222	7.4	6.3-8.5
Employer Based Health Insurance Coverage (18-64)	2,768	7.1	5.9-8.6
Private Health Insurance Plan (18-64)	638	6.2	4.1-9.4
Medicare (18-64)	146	15.8	9.9-24.3
Medicaid or Medical Assistance (18-64)	181	12.7	6.7-22.7
The Military, CHAMPUS, TriCare, or the VA (18-64)	211	5.2	2.9-9.1
The Indian Health Service (18-64)	229	5.2	3.0-8.9
No Flu Shot (65+)	501	6.8	4.5-10.1
Flu Shot (65+)	1,504	8.3	6.8-10.0
No Pneumonia Shot (65+)	654	3.9	2.5-6.2
Pneumonia Shot (65+)	1,292	10.2	8.5-12.2

Table 76 (continued) Have Asthma for Selected Health Behaviors and Conditions, 2005			
Health Behavior or Condition	# Respondents	% Asthma	95% CI
Diabetes	607	8.1	5.8-11.0
No Diabetes	6,276	7.3	6.5-8.2
Previously Had a Heart Attack	434	10.4	7.7-13.9
Never Had a Heart Attack	6,408	7.2	6.3-8.1
Have Angina or Coronary Heart Disease	442	12.8	9.6-16.9
Do Not Have Angina or Coronary Heart Disease	6,385	7.1	6.2-8.0
Previously Had a Stroke	254	14.0	9.7-19.7
Never Had a Stroke	6,615	7.1	6.3-8.0
Arthritis	2,407	12.2	10.5-14.1
No Arthritis	4,404	5.5	4.6-6.5
Arthritis - Activities Limited	1,156	15.0	12.4-18.0
No Arthritis - Activities Limited	5,651	6.2	5.3-7.1
Physical, Mental, or Emotional Disability	1,570	14.9	12.6-17.6
No Physical, Mental, or Emotional Disability	5,276	5.6	4.8-6.5
Disability with Special Equipment Needed	597	18.4	14.3-23.3
No Disability with Special Equipment Needed	6,255	6.6	5.8-7.5
Two or More Hours of TV Watched per Day	4,842	7.8	6.8-8.9
Less Than Two Hours of TV Watched per Day	1,773	6.5	5.1-8.2
Never Been Tested for HIV (18-64)	3,483	6.7	5.6-8.0
Been Tested for HIV (18-64)	1,149	9.0	7.2-11.3
Military Veteran	1,119	6.3	4.7-8.4
Not a Military Veteran	5,746	7.5	6.6-8.5

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2005

CHILDREN WITH ASTHMA

Definition: Children, ages 0-17, who have ever been diagnosed with asthma by a doctor, and they still have asthma.

Prevalence of Asthma

- South Dakota 5.6%
- There is no nationwide median for children, ages 0-17, who have asthma.

Healthy People 2010 Objective

There was no stated Healthy People 2010 Objective for children 0-17 who have asthma.

Trend Analysis

This was the first year this question was asked so no trend analysis could be done.

Demographics

Gender	There was no gender difference observed from the available data regarding the prevalence of asthma in children.
Age	The prevalence of asthma in children generally increases as age increases.
Race	There are no racial differences observed from the available data regarding the prevalence of asthma in children.
Region	There are no regional differences demonstrated by the available data regarding the prevalence of asthma in children.
Household Income	The prevalence of asthma in children does not seem to change as household income changes.

Table 77			
Children, Ages 0-17, Who Were Told They Have Asthma, 2005			
Demographics	# Respondents	% Asthma	95% CI
Total	2,014	5.6	(4.4-6.9)
<u>Gender</u>			
Male	1,015	5.8	(4.4-7.7)
Female	990	5.4	(3.8-7.6)
<u>Age</u>			
0-4	531	3.0	(1.7-5.2)
5-9	456	6.0	(4.1-8.8)
10-14	540	5.0	(3.3-7.5)
15-17	418	8.8	(5.6-13.7)
<u>Race</u>			
White	1,648	5.2	(4.0-6.7)
American Indian	281	6.1	(3.5-10.4)
<u>Region</u>			
Southeast	479	5.6	(3.6-8.4)
Northeast	430	6.3	(4.2-9.5)
Central	349	3.9	(2.3-6.8)
West	475	5.2	(3.5-7.8)
American Indian Counties	281	6.5	(4.0-10.3)

Table 77 (continued) Children, Ages 0-17, Who Were Told They Have Asthma, 2005			
Demographics	# Respondents	% Asthma	95% CI
<u>Household Income</u>			
Less than \$20,000	256	6.1	(2.8-13.0)
\$20,000-\$24,999	159	8.1	(4.3-15.0)
\$25,000-\$34,999	249	5.0	(2.9-8.5)
\$35,000-\$49,999	420	2.6	(1.4-4.7)
\$50,000-\$74,999	416	7.9	(5.4-11.5)
\$75,000+	363	4.8	(2.6-8.8)

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2005